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**Remarks/Arguments**

Claims 20-25, 27-28, 47-50, 52-56, 66-71, 73-74, 86-93, and 103-111 are currently pending in the application. Claims 29-45, 57-65, 75-84, 94-102, 112-114, and 116-117 have been canceled. Claims 20-21, 28, 66-71, 73-74, 86-93, and 103-111 have been amended for clarification. All pending claims are fully supported by the specification, and no new matter has been added to the application. For at least the reasons presented below, Applicant asserts that the pending claims are in condition for allowance.

**1. Claim Objections**

Objection was made to claim 20 line 3 because a grammatical element of the claim sentence was missing. Claim 20 has been amended to correct the error to which the objection was directed, and Applicant respectfully requests withdrawal of the objection.

**2. Rejections Pursuant to 35 U.S.C. § 112 ¶1**

Claims 20-25, 27-45, 47-50, 52-71, 73-84, and 86-117<sup>1</sup> are rejected pursuant to 35 U.S.C. § 112 ¶ 1 as failing to comply with the written description requirement. Specifically, it is alleged that various elements of the claim limitations appear to find support from the disclosure of separate embodiments. Upon review, Applicant has canceled claims 29-45, 57-65, 75-84, 94-102, 112-114 and 116-117 to correct this deficiency. Applicant respectfully requests withdrawal of the rejection in light of these claim cancellations.

For the foregoing reasons, by either argument, amendment or cancellation, the rejections of claims 20-25, 27-45, 47-50, 52-71, 73-84, 86-114 and 116-117 under 35

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U.S.C. § 112 ¶ 1 have been traversed, and Applicant respectfully requests withdrawal of such rejections.

**3. Rejections Pursuant to 35 U.S.C. § 112 ¶2**

Claims 20-25, 27-45, 47-50, 52-71, 73-84, and 86-117<sup>2</sup> are rejected pursuant to 35 U.S.C. § 112 ¶ 2 as being indefinite and failing to particularly define the subject matter regarded by Applicant as the invention. Initially, rejection is premised on the use of variations of the word "provide" which allegedly renders the claims vague and indefinite. Applicant has amended claims 20, 66, and 103 to correct this alleged deficiency. In light of these amendments and cancellations, Applicant respectfully requests withdrawal of the rejection.

Additionally, claims 66-71, 73-84, 86-114, and 116-117 are allegedly deficient for failing to claim that the computer program product, as claimed, is executable. For clarification, while claims 66-71, 73-84, and 86-102 claim a computer program embodied on a computer readable medium, claims 103-114 and 116-117 are system claims, and it is presumed that the rejection relating to the language deficiency is directed to the computer program product claims. As for claims 66-71, 73-84, and 86-102, claims 75-84 and 94-102 have been canceled, and claims 66-71, 73-74, and 85-93 have been amended to include the requested language. In light of these amendments and cancellations, Applicant respectfully requests withdrawal of the rejection.

Claim 73 is allegedly deficient for depending on a previously canceled claim. Claim 73 has been amended so that it now depends from claim 66. In light of this amendment, Applicant respectfully requests withdrawal of the rejection.

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<sup>1</sup> Claim 115 was canceled in a previous amendment such that the claims pending at the time the previous amendment was filed were 103-114 and 116-117.

<sup>2</sup> Claim 115 was canceled in a previous amendment such that the claims pending at the time the previous amendment was filed were 103-114 and 116-117.

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Claims 103-114 and 116-117 are allegedly deficient because it is unclear as to the composition of a "logic circuit." Claims 112-114 and 116-117 have been canceled, and claims 103-111 have been amended to correct the alleged deficiency. In light of these amendments and cancellations, Applicant respectfully requests withdrawal of the rejection.

Claims 113-114 are rejected on the basis that they lack antecedent basis. As stated, claims 113-114 have been cancelled.

Finally, in relation to the rejections pursuant to 35 U.S.C. § 112 ¶ 1 regarding limitations being drawn from alleged unrelated embodiments of the invention as disclosed in the Specification, Applicant asserts that the cancellations as detailed in Section 2 *supra* are sufficient to address the rejections related to 35 U.S.C. § 112 ¶ 2.

For the foregoing reasons, by either argument, amendment or cancellation, the rejections of claims 20-25, 27-45, 47-50, 52-71, 73-84, 86-114 and 116-117 under 35 U.S.C. § 112 ¶ 2 have been traversed, and Applicant respectfully requests withdrawal of such rejections.

#### **4. Rejections Pursuant to 35 U.S.C. § 101**

Claims 20-25, 27-45, 47-50, 52-71, 73-84, and 86-117<sup>3</sup> are rejected pursuant to 35 U.S.C. § 101 as allegedly being directed to nonstatutory subject matter. Specifically, claims 20-25, 27-45, 47-50, and 52-65 are rejected on the basis of not being within the technological arts. Applicant has reviewed the claims, amended claim 20, and canceled claims 29-45 and 57-65. Claim 20 is statutory as a method having seven steps. Such a computerized process is clearly within the scope of 35 U.S.C. § 101. In light of these amendments, Applicant respectfully requests withdrawal of the rejections.

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<sup>3</sup> Claim 115 was canceled in a previous amendment such that the claims pending at the time the previous amendment was filed were 103-114 and 116-117.

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Claims 66-71, 73-84, and 86-102 are considered deficient because language is not included indicating that the computer program product claims are executable. Applicant has amended these claims to include the suggested language, as well as canceled others. In light of these amendments, Applicant respectfully requests withdrawal of the rejections.

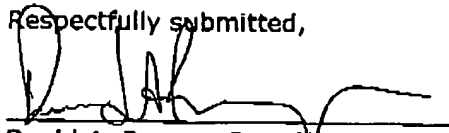
Claims 103-114 and 116-117 are rejected based on confusion regarding the meaning of the phrase "logic circuit" and resulting interpretation of such claims as software *per se*. Applicant has amended claims 103-112 to remove the language "logic circuit," and has canceled claims 112-114 and 116-117. In light of these amendments and cancellations, Applicant respectfully requests withdrawal of the rejections.

For the foregoing reasons, by either argument, amendment or cancellation, the rejections of claims 20-25, 27-45, 47-50, 52-71, 73-84, and 86-117 under 35 U.S.C. § 101 have been traversed, and Applicant respectfully requests withdrawal of such rejections.

## 5. Conclusion

All rejections having been addressed, Applicant submits that all pending claims are in condition for allowance. Applicant respectfully requests reconsideration of the rejected claims and that a Notice of Allowance be issued in this case. In the event a telephone conversation would expedite the prosecution of this application, the Examiner may reach the undersigned at 612-607-7263. If any fees are due in connection with the filing of this paper, the Commissioner is authorized to charge such fees, including fees for any extension of time, to Deposit Account No. 50-1901 (Docket 060021-335501).

Respectfully submitted,

  
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